U.S. Department of Transportation Research and Special Programs Administration

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PHON OF TRANSPORT

January 2003

# **A Guide to Transportation Technology and Innovation**

http://scitech.dot.gov http://t2.dot.gov



# U.S. DEPARTMENT OF TRANSPORTATION Organizational Chart

# BUREAU OF TRANSPORTATION STATISTICS OFFICE OF INNOVATION, RESEARCH, AND EDUCATION VOLPE NATIONAL TRANSPORTATION SYSTEMS CENTER TRANSPORTATION SAFETY INSTITUTE RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION GLOBAL MARITIME AND TRANSPORTATION SCHOOL ASSOCIATE DEPUTY SECRETARY/ OFFICE OF INTERMODALISM SAINT LAWRENCE SEAWAY DEVELOPMENT CORPORATION FEDERAL TRANSIT ADMINISTRATION NATIONAL TRANSIT INSTITUTE DEPUTY SECRETARY SECRETARY VEHICLE RESEARCH AND TEST CENTER TRANSPORTATION TECHNOLOGY CENTER FEDERAL RAILROAD ADMINISTRATION TURNER FAIRBANK HIGHWAY RESEARCH CENTER FEDERAL HIGHWAY ADMINISTRATION FEDERAL AVIATION ADMINISTRATION UNITED STATES COAST GUARD US COAST GUARD R&D CENTER OFFICE OF RESEARCH AND ECHNOLOGY

### **Contents**

Overview of Technology Transfer	į
National Science and Technology Council	I
U.S. Department of Transportation  Office of the Secretary  DOT Office of Intermodalism  DOT Patent Counsel  DOT Small Business Innovation Research  Garrett A. Morgan Technology and Transportation Futures Program	1 2 2
Bureau of Transportation Statistics	3
Federal Aviation Administration	4
Federal Highway Administration	5
Federal Motor Carrier Safety Administration	9
Federal Railroad Administration	П
Federal Transit Administration	12
Maritime Administration	15
National Highway Traffic Safety Administration	17
Research and Special Programs Administration	18
United States Coast Guard	21



### A Guide to Technology and Innovation

This guidebook was produced by members of the U.S. Department of Transportation (DOT) Technology Innovation Committee and is intended as an overview of innovation and technology transfer activities in the Department. This product is a quick reference book to points of contact to begin to understand innovation, research, and technology activities at the DOT and help you pursue development of more formal technology and innovation sharing partnerships. The members of the Committee (listed on the inside back cover) are initial contacts who will assist you in finding technical assistance and materials of interest.

Online users can find additional information on our headquarter's agencies, DOT laboratories, partnership opportunities, Small Business Innovation Research (SBIR) Program, as well as updated information about DOT Technology Transfer at our web site at:

### http://t2.dot.gov

The Transportation Science and Technology home page is a onestop resource for additional information on federal, national, and international transportation planning, technology, and R&D activities:

### http://scitech.dot.gov

Additional information about the DOT is provided on the Department's web site:

### http://www.dot.gov

For additional copies or information about this guide, you may contact the Volpe Center Office of Communications and Technology Outreach (617) 494-2224 or MurrayL@volpe.dot.gov





To derive maximum return on our country's technological investments, the DOT encourages innovation and transfer of federally funded technology to the private sector to promote safety and national security, and to enhance the national transportation system.

### What is Technology Transfer?

echnology Transfer includes a range of formal and informal cooperative actions between agencies, federal laboratories, and the public and private sectors. Product improvement, service efficiencies, improved manufacturing processes, joint development to address government and private sector needs, and the development of major new products for the international marketplace are the results of successful technology transfer efforts.

The DOT is forging partnering ventures in the areas of strategic planning, enabling research, and education. Examples are the initiatives of the National Transportation Science and Technology Strategy; partnerships on transportation information infrastructure, next-generation vehicles, and transportation physical infrastructure; and the University Transportation Centers (UTC) Program.

### Why is Technology Transfer Important to DOT?

The efficiency, flexibility, and low cost of transportation in the United States makes our transportation system the envy of the world. But our system faces unprecedented demands for improvement and renewal. A fast-paced, information-intensive economy is changing the places people want and need to travel to, and new production and management methods are radically reshaping the shipping needs of business. At the same time, the nation's transportation system is expected to meet unprecedented standards for reliability, cost, timeliness, safety, security, growth, and environmental impact.

# What Activities are Included in Innovation and Technology Transfer Efforts?

Innovation and Technology Transfer happens in many ways:

- information sharing through papers, workshops, briefings, publications, reports, conferences, and personal visits;
- partnerships and memoranda of understanding;
- coalitions and advisory committees;
- information searches:
- technical assistance and expertise;
- access to federal laboratory facilities and services;
- resource pooling through cooperative agreements;
- license and patent agreements;
- international exchange programs;
- personnel exchange; and
- technical training.

### How to Use This Guide

In the following pages, facilities and services available from each DOT agency are briefly described and information is provided. This information includes telephone, and fax numbers as well as postal mail, email, and web site addresses. Written inquiries to DOT elements within Washington, DC, should use the address format below. Be sure to insert the appropriate office name.

U.S. Department of Transportation (Insert Office Name and Mail Code) 400 Seventh Street SW Washington, DC 20590

Complete addresses are provided for those DOT elements located outside Washington, DC.





# National Science and Technology Council http://www.ostp.gov/NSTC/html/NSTC\_Home.html

he National Science and Technology Council (NSTC) was established by Executive Order on November 23, 1993. This Cabinet-level Council is the principal means for the President to coordinate science, space, and technology and to coordinate the diverse parts of the federal research and development enterprise. An important objective of the NSTC is the establishment of clear national goals for federal science and technology investments in areas ranging from information technologies and health research, to improving transportation systems and strengthening fundamental research. The Council prepares research and development strategies that are coordinated across federal agencies to form an investment package aimed at accomplishing multiple national goals. Transportation coordination with the NSTC is reflected in strategic planning and assessment, public-private partnerships, enabling research, education, publications, and activities on the Transportation Science and Technology web site at http://scitech.dot.gov.



### **DOT** Office of Intermodalism

The Office of Intermodalism provides coordination in developing an intermodal transportation system to move people and goods in an energy-efficient, economic manner that obtains the optimum yield from the nation's transportation resources. The Office coordinates federal research on intermodal transportation and advances in intermodal initiatives supported by state and local governments and the private sector through regionally based staff assignments.





Office of Intermodalism (S-3) Voice: (202) 366-5781 FAX: (202) 366-0263

### **DOT Patent Counsel**

The DOT has centralized processing and information regarding DOT-owned patents and licensing of DOT-developed technology with the Office of the General Counsel.

DOT Patent Counsel (C-15) Contact: Otto Wildensteiner Voice: (202) 366-9162

FAX: (202) 366-9170

Email: Otto. Wildensteiner@ost.dot.gov

DOT Small Business Innovation Research (SBIR) http://www.volpe.dot.gov/sbir

ongress established the Small Business Innovation Research (SBIR) Program to stimulate technology innovation, utilize small business to meet federal research and development needs, encourage participation by minority and disadvantaged businesses in technological innovation, and increase private sector commercialization of innovations derived from federal R&D. In the DOT, this program is managed through the Volpe Center.

As of 1999, the SBIR solicitation became available in electronic form only on the Internet. In 2000, the SBIR program accepted proposals in paper form and electronically.

Volpe National Transportation Systems Center

55 Broadway

Cambridge, MA 02142-1093 Contact: Joe Henebury, DTS-22

Voice: (617) 494-2712 FAX: (617) 494-2370

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Email: henebury@volpe.dot.gov

Garrett A. Morgan Technology and Transportation Futures Program http://education.dot.gov

Program has three goals: I) To build a bridge between America's youth and the transportation community; 2) To support the development of improved educational technology that provides better ways for people to acquire new skills; and 3) To ensure that America's transportation workforce for the 21st century is technologically literate and internationally competitive. The Program will serve as a catalyst to enhance transportation education at all levels by leveraging the Department's current technology, education, and research programs and by forging public/private partnerships. The Program has four components of K-12, community college partnerships, undergraduate and graduate opportunities, and life-long learning.

# Garrett A. Morgan Technology and Transportation Futures Program

ATTN: MAR-250
U.S. Department of Transportation
Washington, DC 20590-0000
Email: garrett.morgan@bts.gov



The Bureau of Transportation Statistics (BTS) compiles, analyzes, and makes accessible information on the nation's transportation systems; collects information on intermodal transportation; and works to enhance the quality and effectiveness of DOT statistical programs through the development of guidelines and promotion of improvements in data acquisition and use. BTS

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publishes statistical and other information in printed and electronic forms and compiles and disseminates inventories of all transportation data resources available to the public. Visit the National Transportation Library on the BTS web site for thousands of publications and reports. With the exception of BTS Office of Airline Information products, all other BTS products are available at no charge while supplies last.

Bureau of Transportation Statistics National Transportation Library Contact: Cynthia Sparkman Voice: (202) 366-5684

FAX: (202) 366-3676

Email: cindy.sparkman@bts.gov BTS Products: (202) 366-DATA

BTS Information Services: (800) 853-1351

Email: answers@bts.gov



William J. Hughes Technical Center http://www.tc.faa.gov

The William J. Hughes Technical Center, in Atlantic City, New Jersey, is the focal point for technology transfer activities in the Federal Aviation Administration (FAA). The Center's mission is to provide research, engineering, and test expertise in an integrated laboratory environment for the development and support of a safe, secure, and efficient global aviation system. The facilities and specialized equipment available include: National Airspace Systems laboratory with computer operations and laboratory facilities for enroute, oceanic and terminal systems support, scan radar lab, ATC voice communications complex and the technical computer data center; Air Traffic Flow

Management Laboratory; Research, Development, and Human Factors Laboratory; full-scale aviation fire test building, aircraft components fire test facility, airport and helicopter test beds, air traffic management simulation capabilities, airport capacity laboratory, weather and GPS test beds; the National Airport Pavement Test Facility, engine nacelle fire simulator, airflow induction test facility; full-scale curved panel test system, fuels laboratory, and a dynamic vertical drop test facility.

Other FAA facilities include the FAA Toxicology and Accident Research Laboratory and the Civil Aeromedical Institute which addresses the bioengineering, biomedicine, and biochemistry issues associated with performance and safety, both located at the FAA Mike Monroney Aeronautical Center complex in Oklahoma City, Oklahoma. The facilities at this location include aircraft cabin evacuation simulators, a dynamic impact sled test facility, a water survival tank, a research altitude chamber, and a forensic toxicology laboratory.

FAA Technical Center Atlantic City International Airbort, NJ 08405 Contact: Dennis L. Filler Voice: (609) 485-6439 FAX: (609) 485-5152

Email: dennis.filler@faa.dot.gov



### **Federal Highway Administration** http://www.fhwa.dot.gov

Turner-Fairbank Highway Research Center http://www.tfhrc.gov

The Turner-Fairbank Highway Research Center (TFHRC) is the home of the Federal Highway Administration's (FHWA's) Research, Development, and Technology Business Unit. The Center advances the state-of-the-technology and works coopera-

tively with FHWA's HQ offices and the 55 field offices to ensure that the technology is put into practice.

The FHWA Research and Technology (R&T) Program directly supports the goals of the U.S. Department of Transportation to invest strategically in transportation infrastructure, promoting safe and secure transportation, enhancing our environment, mitigating traffic congestion; and creating new alliances between the nation's transportation and technology industries.

The TFHRC provides FHWA and the world highway community with the most advanced research and development related to new highway technologies. The research focuses on providing solutions to complex technical problems through the development of more economical, environmentally sensitive designs; more efficient, quality controlled construction practices; and more durable materials. The end result is a safer, more reliable highway transportation system.

The Center has more than 20 laboratories conducting research in the following areas: safety, infrastructure, and operations. Special facilities used for in-house or contractor-operated activities include human factors, highway driving simulator, FHWA/NHTSA National Crash Analysis Center located at the George Washington University's Virginia Campus, highway electronics, structures, hydraulics, pavement performance, aerodynamics, concrete technology, chemistry, soil mechanics, bituminous mixtures, bridge foundation test facility, federal outdoor impact laboratory, photometric and visibility laboratory, and pavement testing facility. There are also general support facilities such as a mechanical design and fabrication shop, a technical reference center, and an offsite Report Center.

Turner-Fairbank Highway Research Center 6300 Georgetown Pike McLean,VA 22101 Contact: John McCracken

Voice: (202) 493-3422

FAX: (202) 493-3475

Email: John.Mccracken@fhwa.dot.gov

National Highway Institute http://www.nhi.fhwa.dot.gov

The National Highway Institute (NHI) offers training programs addressed to transportation employees at all levels of federal, state, and local government; industry; universities; and the international transportation community. The objectives of the NHI training are: I) to increase the knowledge, skills, productivity, efficiency, and value of the transportation workforce; 2) to foster the implementation of state-of-the-art technologies emanating from research and development; and 3) to stimulate economic vitality while improving the United States' competitive position in world markets by showcasing U.S. technology to the international transportation community.

In addition, the NHI participates in other learning activities including: administering the Dwight David Eisenhower Transportation Fellowship Program, providing resource materials for universities, and involvement with industry and international entities including the Pan American Institute of Highways.

Federal Highway Administration National Highway Institute 4600 N. Fairfax Dr., Suite 800 Arlington, VA 22203 Contact: Rick Barnaby

Voice: (703) 235-0520 FAX: (703) 235-0593

Email: rick.barnaby@fhwa.dot.gov

# Local Technical Assistance Program http://www.ltapt2.org

The Local Technical Assistance Program (LTAP) is the most direct, hands-on method FHWA and its partners have for moving innovative transportation technologies out of the lab, off the shelf, and into the hands of people who maintain our local, rural, and tribal streets and roads.

The LTAP does this by funding technology transfer (T2) and technical assistance projects that link local highway agencies, tribal governments, universities, the states, and the federal government. A network of LTAP centers provide T2 services, technical assistance, training, products, advice, and educational resources to meet the varied needs of the local transportation workforces. There are 57 LTAP T2 centers, one in each state and Puerto Rico, and 6 regional centers serving Native American tribal governments.

Generally located at universities or state highway agencies, centers serve more than 38,000 rural and local agencies and tribal governments. The program is administered by FHWA's Office of Professional Development. Support for the centers comes from the federal LTAP funds, matched by a combination of funds from state departments of transportation, the Bureau of Indian Affairs, universities, local agencies, and finances designated by state legislation.

Federal Highway Administration
Office of Professional Development
4600 N. Fairfax Dr., Suite 800
Arlington, VA 22203
Contact: Al Alonzi

Voice: (703) 235-0509 FAX: (703) 235-0593

Email: al.alonzi@fhwa.dot.gov



### Federal Motor Carrier Safety Administration http://www.fmcsa.dot.gov

The Federal Motor Carrier Safety Administration (FMCSA) works to reduce the number and consequences of large truck and bus crashes on the nation's highways. FMCSA's work involves administering federal and state motor carrier safety enforcement programs, developing close partnerships to change unsafe behavior, conducting research, and deploying technology to improve safety and security.

### Office of Research and Technology

The Office of Research and Technology manages FMCSA research and technology development, testing, and transfer. The research and technology programs focus on safety and security efforts involving drivers, vehicles, carriers, new technologies, and crosscutting issues and research. The Office also manages two Intelligent Transportation Systems programs, (i.e., Commercial Vehicle Information Systems and Networks, CVISN) and the heavy vehicle platform of the Intelligent Vehicle Initiative, which focuses on in-vehicle safety systems. The research and technology projects are coordinated and often in partnership with relevant agencies, research organizations, states, carriers, the private sector, and others. The results are used to develop or refine FMCSA's policies, strategies, regulations, enforcement, and most importantly, commercial motor vehicle safety. The results are widely distributed and in multiple mediums.

Office of Research and Technology Federal Motor Carrier Safety Administration 400 Seventh Street SW Washington, DC 20590 Contact: Douglas McKelvey Voice: (202) 358-5017

FAX: (202) 358-7100

Email: doug.mckelvey@fhwa.dot.gov

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### **Safety Action Programs**

Safety Action Programs encompass the FMCSA non-enforcement strategies to reduce commercial motor vehicle crashes. These include the FMCSA education and outreach programs used to influence the behavior of 500,000 motor carriers, more than 7 million truck and bus drivers, and passenger car drivers operating near large commercial vehicles. Research findings and safety technologies are communicated through outreach initiatives, deployment strategies, and through the FMCSA web site to improve the safety of motor carrier operations, commercial motor vehicles, and commercial motor vehicle drivers; and involve public and private partnerships for using information systems, innovative technologies, and business practice reengineering. FMCSA is heavily involved in deploying intelligent technology to improve the efficiency of commercial operations with improved safety benefits.

Safety Action Programs
Federal Motor Carrier Safety Administration
400 Seventh Street SW
Washington, DC 20590
Contact: Jim Keenan
Voice: (202) 366-2966

FAX: (202) 366-7908

Email: jim.keenan@fhwa.dot.gov

The National Training Center http://www.fmcsa.dot.gov/ntc/pages/set.html

The National Training Center (NTC) serves as the national focal point for the development and delivery of motor carrier safety training to enhance the capabilities of participating federal, state, and local government highway safety agencies. The NTC delivers training in commercial vehicle and driver inspection, drug interdiction, Intelligent Transportation Systems, compliance and enforcement, highway safety, education and

outreach, and program management and support. In 3 years, it has delivered over 1,000 training courses to more than 32,000

National Training Center Federal Motor Carrier Safety Administration 4600 North Fairfax Drive, Suite 700

federal, state, and local government employees.

Arlington, VA 22203 Contact: Retta Besse

Voice: (703) 235-0506 FAX: (703) 235-0517

Email: retta.besse@fhwa.dot.gov



# Federal Railroad Administration http://www.fra.dot.gov/

A railroad research and development program is administered by the Federal Railroad Administration (FRA) to advance all aspects of railroad safety and intercity ground transportation. R&D is carried out in the following program areas: equipment, human factors, hazardous materials, track safety, next generation high-speed trains, safety of high-speed ground transportation, and highway-railroad grade crossings. The **Transportation Technology Center**, managed and staffed by the Association of American Railroads for the FRA, is a 50-square-mile facility located near Pueblo, Colorado. It has laboratories, test tracks, and instrumentation for testing and evaluation of freight and passenger rolling stock, rolling stock components, track components, and advanced systems.

Office of Research and Development, RDV-30

Contact: Steve Ditmeyer Voice: (202) 493-6347 FAX: (202) 493-6333

Email: Steve.Ditmeyer@fra.dot.gov





# Federal Transit Administration http://www.fta.dot.gov

The Federal Transit Administration (FTA) supports its interest in federal research and development and its continuing commitment to facilitate the dissemination and implementation of transit research and planning activities to state and local agencies and private sector through its full-service **Transit Research Information Center**. The Center annually publishes Transit Planning and Research Reports: Annotated Bibliography, and Transit Planning and Research Program Project Directory to help its stakeholders stay abreast of the nature and scope of transit research projects.

Contact: Marina Drancsak, TRI-30

Voice: (202) 366-0201 FAX: (202) 366-3765

Email: Marina.Drancsak@fta.dot.gov

The Center also supports the **Transportation Research Information Service (TRIS)** database which is operated and maintained by the Transportation Research Board at the National Academy of Sciences. TRIS is the world's largest and most comprehensive bibliographic resource on all phases of conventional, new, advanced, and emerging transportation systems worldwide. The TRIS Online version of the database is available to everyone, at no cost, on the National Transportation Library web site at http://ntl.bts.gov/tris. TRIS Online contains more than 425,000 records of published transportation research.

Transportation Research Board 2101 Constitution Avenue NW Washington, DC 20418 Contact: Barbara Post Voice: (202) 334-2990

Email: bpost@nas.edu

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http://www.ntionline.com

The National Transit Institute (NTI), established in 1992 at Rutgers University, is a training and education resource for the transit industry. Its mission is to provide training, education, and clearinghouse services in support of public transportation and quality of life in the United States. The Institute develops and teaches new and advanced methods and techniques for ensuring transit systems security and safety, improving transit system performance, and increasing productivity in the workplace. Training is conducted for federal, state, and local transit employees in areas related to federal programs and industry needs. Courses are conducted at sites nationwide on a broad range of subjects, from advanced technology and multimodal planning to management development and training effectiveness. Under its expanded mission pursuant to TEA-21, NTI provides free health and safety training to transit workers.

National Transit Institute 120 Albany Street, Suite 705 New Brunswick, NJ 08901-2163 Contact: Lewis Clopton

Voice: (202) 366-9157 FAX: (202) 366-3765

Email: lewis.clopton@fta.dot.gov

Altoona Bus Testing and Research Center http://www.vss.psu.edu/fta

The Altoona Bus Testing and Research Center, located on 6th Avenue in Altoona, Pennsylvania, was established in 1989 by the Pennsylvania Transportation Institute (PTI) with funding provided by the Federal Transit Administration. The rail training center, no longer in service, was converted to a bus

testing center. The staff at this center are responsible for testing new model buses as required by federal law to be eligible for federal funding. The Penn State Bus Research and Testing Facility located near University Park, Pennsylvania, is also part of the Altoona Bus Testing and Research Center.

The Testing Program provides bus manufacturers and transit agencies invaluable information that is used to improve the quality and safety of transit buses. It saves operators and taxpayers millions of dollars in operating and maintenance costs over the life of each bus model. The Testing Program is administered by the Vehicle Systems and Safety Program staff at the Altoona Bus Testing and Research Center in Altoona, Pennsylvania, and PTI in State College, Pennsylvania. The facility currently handles up to eight buses at one time. Since its start in 1990, the Bus Testing Program has tested over 150 new model buses. Currently, the Center tests buses for safety, structural integrity, performance, maintainability, noise, and fuel economy. Two additional tests, emissions and brake testing, will soon be added. Test results are compiled in a comprehensive report available to the industry and the public. Testing to date has resulted in more than 4,000 reported malfunctions ranging from minor problems to serious design deficiencies and safety-related failures. By identifying serious design problems before the buses are placed in revenue service, many costly fleet failures and serious safety problems have been averted.

Contact: Marcel Belanger Project Manager, TRI20 Voice: (202) 366-0725 FAX: (202) 366-3765

Email: marcel.belanger@fta.dot.gov



### **Maritime Administration**

http://www.marad.dot.gov

The Maritime Administration (MARAD) conducts research and development activities to assess and deploy innovative technology and management practices in the U.S. maritime industries. The purpose is to improve the competitiveness, efficiency, productivity, safety, environmental sensitivity, and military utility of:

- U.S. vessel operations in domestic and international trades;
- U.S. intermodal transportation and port operations; and
- U.S. shipbuilding and repair yards in domestic and international trades.

MARAD works closely with industry and academia. Several active research cooperatives having industry leadership have been formed in the areas of ship operations, cargo handling, maritime academies, and ship piloting.

Contact: Alexander C. Landsburg R&D Coordinator, MAR-500.5

Voice: (202) 366-1923 FAX: (202) 493-2288

Email: alex.landsburg@marad.dot.gov

### The Ship Operations Cooperative Program (SOCP)

is a public/private sector partnership engaged in cost-shared joint-venture R&D to improve the safety and efficiency of vessels in a wide variety of maritime services. The purpose of the SOCP is to address and promote commercially beneficial innovations in ship operations through the identification, development, and application of new methods, procedures, and technologies. With the support of MARAD, industry, labor, and government are working together to address common challenges and identify new solutions for improvements in ship operations.

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Contact: Todd Ripley, MAR-500

Voice: (202) 366-2625 FAX: (202) 366-9580

Email: todd.ripley@marad.dot.gov

Web: http://www.socp.org

Global Maritime and Transportation School **U.S.** Merchant Marine Academy http://www.usmma.edu/gmats

ocated on the campus of the U.S. Merchant Marine Academy, the Global Maritime and Transportation School (GMATS) provides short courses, conferences, and seminars for transportation professionals seeking to learn about leading-edge developments in intermodal transportation and logistics management. The School's programs are designed to meet the transportation training needs of corporate America as well as those of government and military organizations. Courses include topics designed for management trainees and seasoned professionals who wish to understand complex transportation and logistics systems in order to efficiently manage or expand the transportation activities of their organization.

Center for Global Logistics and Transportation U.S. Merchant Marine Academy Kings Point, NY 10024-1699 Contact: James Hanna

Voice: (516) 773-5159 FAX: (516) 773-5252

Email: hannaj@usmma.edu



The National Highway Traffic Safety Administration (NHTSA) is an authoritative national and international source of highway and motor vehicle safety information and services that provides technical and programmatic assistance to industry; federal, state, and local governments; educational and research institutions; and motorists. Examples are the Auto Safety Hotline (888-327-4236) which provides information on product defects; and the Buying a Safer Car program (http://www.nhtsa.dot.gov/cars/testing/ncap), which provides ratings of vehicle safety performance by crash testing new vehicles.

NHTSA also offers outreach information at (http://www.nhtsa.dot.gov/people/outreach) including NHTSA Facts for information on consumer products and issues, and **Traffic Safety Digest** highlighting innovative traffic safety projects.

Office of Research and Development, NRD-01

Contact: Gary Bell Voice: (202) 366-5932 FAX: (202) 366-5930

Email: Gary.Bell@nhtsa.dot.gov

The Vehicle Research and Test Center (VRTC) http://www-nrd.nhtsa.dot.gov/vrtc/vrtcstar.htm

The VRTC, located in East Liberty, Ohio, is the principal inhouse testing laboratory for NHTSA. The physical facilities include a 7.5-mile test track, vehicle dynamics area with various test surfaces, skid pad, brake slope, and truck/bus durability and off-road courses. VRTC conducts research and vehicle testing in the areas of crash avoidance, crashworthiness, and biomechanics.



These research and development activities produce safer vehicles through improved vehicle performance, occupant protection systems, and structural integrity of vehicles; increased understanding of driver behavior; and the use of intelligent systems to enhance drivers' ability to avoid crashes and travel safely. VRTC also conducts investigations into potential safety-related defects in motor vehicles in support of the Office of Defects Investigation.

Vehicle Research and Test Center P.O. Box 37 East Liberty, OH 43319-0337

Contact: Mike Monk Voice: (937) 666-4511 FAX: (937) 666-3590

Email: Mike.Monk@nhtsa.dot.gov



# Research and Special Programs Administration

http://www.rspa.dot.gov

The Research and Special Programs Administration (RSPA) operates the **Technology Sharing Program (TSP)**, a technical assistance and information exchange service primarily for state and local government officials. It has gained a reputation for producing high quality intermodal technical reports in a user-friendly format for the non-scientist or technical person to understand and act on problems of state or local governments.

TSP Order Desk Information: (202) 366-4999 Web: http://www.tsp.dot.gov FAX: (202) 366-3272 University Transportation Centers (UTC) http://utc.dot.gov

The mission of the UTCs is to advance U.S. technology and expertise in the many disciplines comprising transportation through the mechanisms of education, research, and technology transfer at university-based centers of excellence.

The Transportation Equity Act for the 21st Century (TEA-21), enacted on June 9, 1998, authorized up to \$194.8 million for grants to establish and operate up to 33 University Transportation Centers (UTC) throughout the U.S. in FY 1998 - 2003. Ten of these centers, which are designated as Regional Centers, were selected by competition in 1999. The other 23 UTCs are located at universities named in TEA-21. After a limited competition among the named universities in FY 2002, the program comprises 26 centers. All UTCs are required to match federal funds dollar for dollar.

Email: utc@rspa.dot.gov Voice: (202) 366-4434

Volpe National Transportation Systems Center http://www.volpe.dot.gov

The Volpe National Transportation Systems Center (Volpe Center) in Cambridge, Massachusetts, is an element of RSPA. The Center, which fosters innovation and champions transportation from a system-wide perspective, performs work on a fee-forservice basis for all modes of DOT, other federal, state, and local agencies, and some international entities. The expertise of the Center falls into four major categories: Operations Research and Analysis; Information Systems Engineering; Communication, Navigation, and Surveillance; and Vehicle, Guideway, and Terminal Systems. The Center also is responsible for coordinating and supporting the Department's Small Business Innovation Research (SBIR) Program.

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## Transportation Safety Institute http://www.tsi.dot.gov

With over 500,000 students trained, RSPA's Transportation Safety Institute (TSI) has made major contributions to improve transportation safety and security for the traveling public - both nationwide and internationally. TSI's training programs are designed and conducted to respond to the needs of the sponsoring (or client) organizations. They are the primary provider of multimodal safety and security training in the federal government. The Institute offers a wide variety of training courses and seminars, most of which are available at field locations as needed. Training is performance oriented; that is, designed to teach people how to better perform their jobs to ensure safety of personnel, systems, and functions.

Transportation Safety Institute 6500 South MacArthur Blvd., P.O. Box 25082 Oklahoma City, OK 73125-5050 Contact: Frank Tupper, Director

Voice: (405) 954-3153 FAX: (405) 954-3521

Email: Frank.Tupper@mmacmail.jccbi.gov



### **United States Coast Guard**

### http://www.uscg.mil

U.S. Coast Guard Commandant (G-CIR) 2100 Second Street SW Washington, DC 20593 Contact: Shannon R. Jenkins Voice: (202) 267-0135 FAX: (202) 267-4816

Email: sjenkins@comdt.uscg.mil

# Coast Guard Research and Development Center http://www.rdc.uscg.mil

The Research and Development (R&D) Center in Groton, Connecticut, is the Coast Guard's sole facility performing research, development, testing, and evaluation (RDT&E) in support of the Coast Guard's major missions of Maritime Law Enforcement, Maritime Safety, Marine Environmental Protection, and National Security. These efforts are broad and varied, and manifest themselves by supporting the acquisition and regulatory processes, and improving the efficiency and effectiveness of Coast Guard operations and resources. The R&D Center also operates a Fire and Safety Test Detachment (F&STD) in Mobile, Alabama. The F&STD is the only facility in the world using actual ships for full-scale fire testing.

U.S. Coast Guard R&D Center 1082 Shennecosset Road Groton, CT 06340-6096 Contact: Syed S. Hussain Voice: (860) 441-2764

FAX: (860) 441-2792

Email: shussain@rdc.uscg.mil

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- Bureau of Transportation Statistics
  Cynthia Sparkman (cindy.sparkman@bts.gov)
- Federal Aviation Administration
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